



● Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		2.3Ah
Dimensions	Total Height	67±2mm(2.64 inches)
	Height	61±2mm(2.40 inches)
	Length	178±2mm(7.01inches)
	Width	35±2mm (1.38 inches)
Weight Approx		0.9kg(1.98 lbs)± 4%

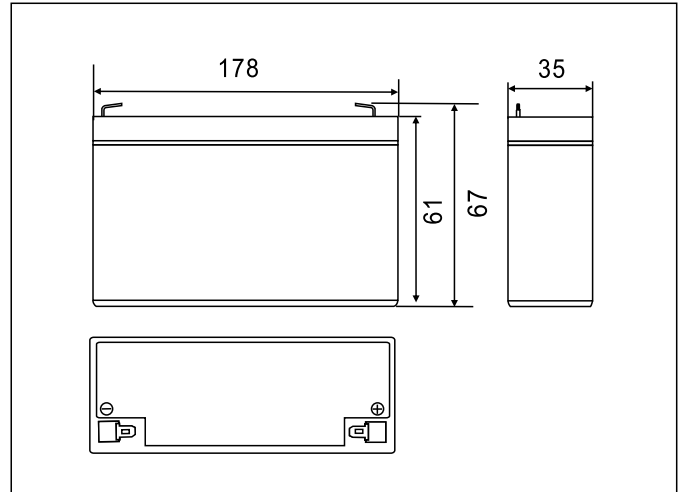
● Characteristics

Capacity 25°C(77°F)	20 hour rate(0.115A)	2.30 AH
	10 hour rate(0.22A)	2.20 AH
	5 hour rate(0.40A)	2.00AH
	1hour rate(1.50A)	1.50 AH
Internal Resistance	Full charged Battery at 25°C(77°F)	60m Ω
Capacity affected by Temperature (20hour rate)	40°C(104°F)	102%
	25°C(77°F)	100%
	0°C(32°F)	85%
	-15°C(5°F)	65%
Self-Discharge at 25°C(77°F)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Charge (constant voltage)	Cycle	Initial Charging Current Less than 0.69 A Voltage 14.50-14.90V
	Float	Voltage 13.50-13.80V

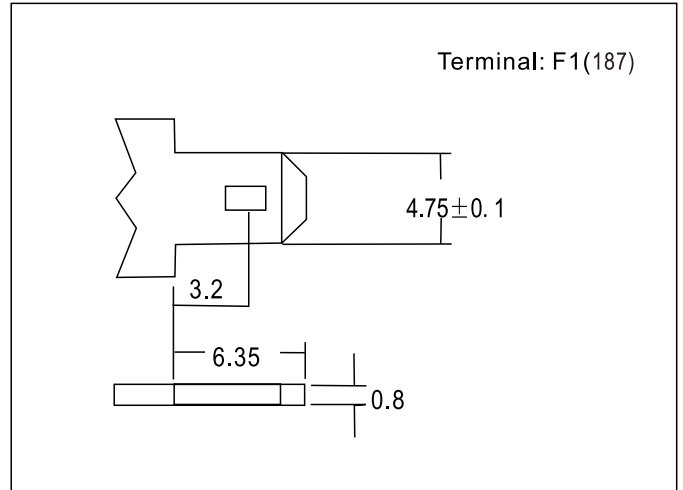
● Applications

- Electric tools
- Electric toys
- Emergency lighting
- Electronic instruments
- Medical equipment
- Alarm and security systems
- Solar power systems
- Wind power systems
- Telecommunication equipments
- Uninterruptible power supplies

● Outer Dimensions (mm)



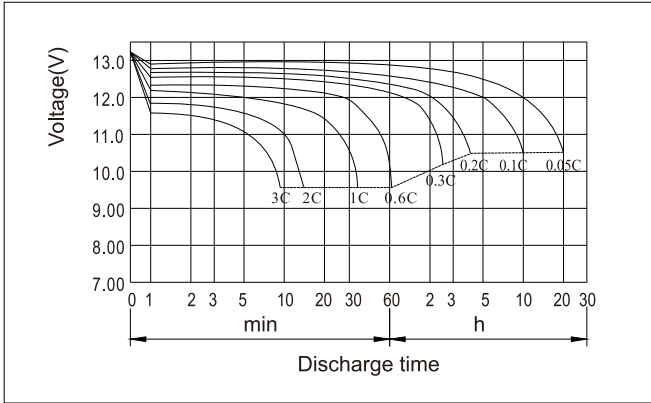
● Terminal Type (mm)



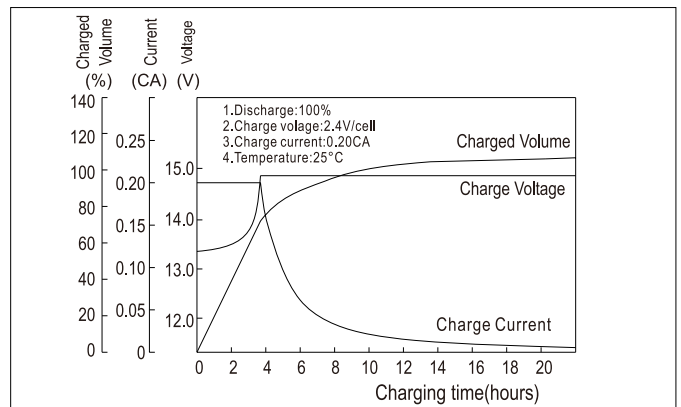
Constant Current(AMP) and Constant Power(Watt) Characteristics at 25°C(77°F)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h	
9.60V	A	8.74	5.52	4.37	2.44	1.50	0.82	0.59	0.47	0.40	0.22	0.117
	w	97.5	62.3	49.8	27.9	17.3	9.56	6.97	5.59	4.76	2.61	1.40
9.90V	A	8.48	5.35	4.27	2.39	1.47	0.81	0.58	0.47	0.40	0.22	0.116
	w	94.6	60.4	48.6	27.4	17.1	9.50	6.93	5.56	4.73	2.60	1.40
10.2V	A	8.13	5.13	4.11	2.32	1.44	0.81	0.58	0.46	0.39	0.22	0.116
	w	90.7	57.9	46.8	26.5	16.6	9.42	6.88	5.52	4.70	2.58	1.39
10.5V	A	7.78	4.91	3.97	2.26	1.41	0.79	0.58	0.46	0.39	0.21	0.115
	w	86.8	55.4	45.2	25.9	16.3	9.28	6.83	5.48	4.67	2.57	1.38
10.8V	A	7.34	4.64	3.76	2.18	1.36	0.77	0.56	0.45	0.38	0.21	0.113
	w	81.9	52.3	42.8	24.9	15.8	9.04	6.63	5.31	4.53	2.52	1.35

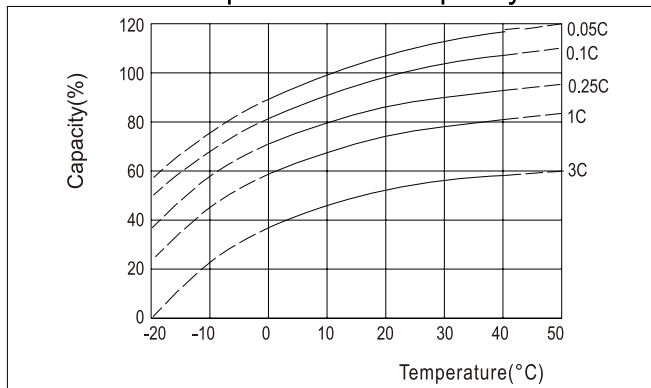
● Discharge Characteristics(25°C)



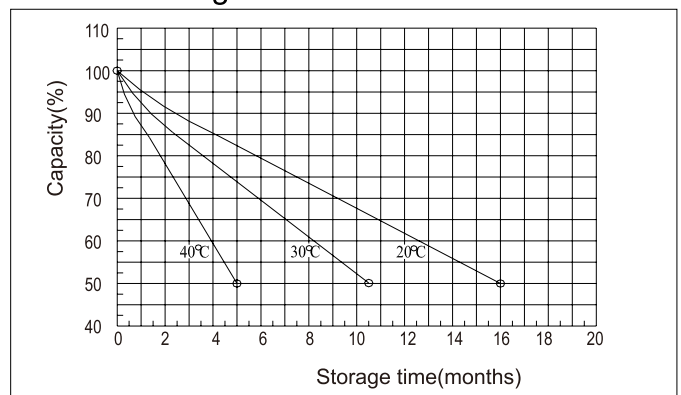
● Charging Characteristics(25°C)



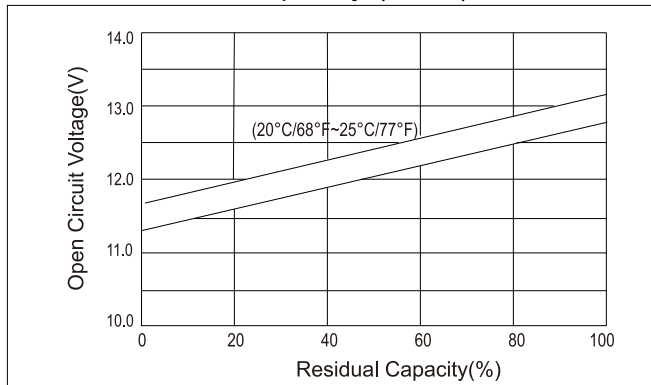
● Effect of Temperature on Capacity



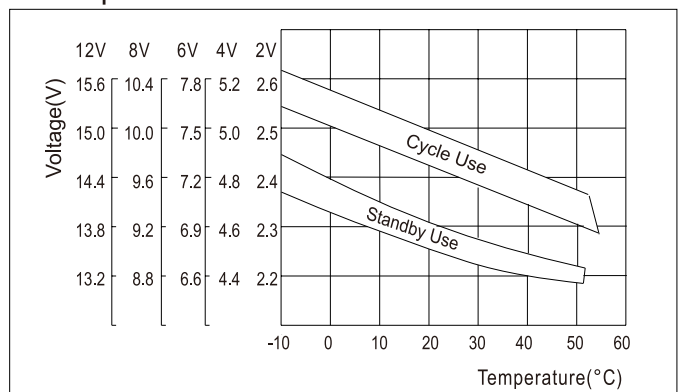
● Self-discharge Characteristics



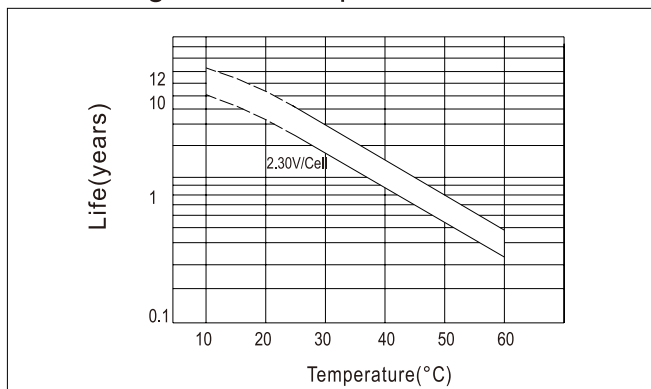
● The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



● The Relationship for Charging Voltage and Temperature



● Floating Life on Temperature



● Cycle Life on D.O.D (25°C)

